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DATE MAILED: 09/02/2009

NOTICE OF ALLOWANCE AND FEE(S) DUE

324 7590 09/02/2009

JoAnn Villamizar Ciba Corporation/Patent Department 540 White Plains Road P.O. Box 2005 Tarrytown. NY 10591 EXAMINER

KLEMANSKI, HELENE G

ART UNIT PAPER NUMBER

 APPLICATION NO.
 FILING DATE
 HIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFERMATION NO.

 10/579,364
 05/15/2006
 Athanassios Tzikas
 4-22983/A/PCT
 1722

TITLE OF INVENTION: MIXTURES OF REACTIVE DYES AND THEIR USE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/02/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includired below or directed oth	ng the Patent, advance of nerwise in Block 1, by	orders and notification of (a) specifying a new corre	maintenance fees wi spondence address;	ill be i and/or	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
	ENCE ADDRESS (Note: Use Bi	ock 1 for any change of address)	pan	te; A certificate of r e(s) Transmittal. This ers. Each additional e its own certificate	paper.	. such as an assignmei	r domestic mailings of the or any other accompanying nt or formal drawing, must
540 White Plain	n/Patent Departmen		I be	Cert	ificate	of Mailing or Trans	nission deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.
P.O. Box 2005 Tarrytown, NY	10591						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	₹	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/579,364 TITLE OF INVENTION	05/I5/2006 : MIXTURES OF REAC	CTIVE DYES AND THE	Athanassios Tzikas EIR USE		4	-22983/A/PCT	1722
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	12/02/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS	1			
KLEMANSK	I, HELENE G	1793	106-031480	-			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DAT/ less an assignee is ident h in 37 CFR 3.II. Comp	inge of Correspondence Indication form and. Use of a Customer A TO BE PRINTED ON	2. For printing on the j (I) the names of up to or agents OR, alternati (2) the name of a sing registered attorney or 2 registered patent att listed, no name will be THE PATENT (print or ty e data will appear on the j T a substitute for filing an (B) RESIDENCE: (CTT)	o 3 registered patent wely, de firm (having as a agent) and the name orneys or agents. If n printed. prope) oatent. If an assigner assignment.	members of uponam	er a 2	ocument has been filed for
Please check the appropr	iate assignee category or	categories (will not be p	orinted on the patent):	Individual Co	porati	on or other private gro	up entity Government
Advance Order -	To small entity discount p	permitted)	Ab. Payment of Fee(s): (Ple A check is enclosed. Payment by credit ca The Director is hereb overpayment, to Depu	rd. Form PTO-2038	is atta	ched.	shown above) ficiency, or credit any n extra copy of this form).
	s SMALL ENTITY state	as. See 37 CFR 1.27.	b. Applicant is no lor				
interest as shown by the	records of the United Sta	ites Patent and Trademar	ed from anyone other than k Office.	uie applicant, a regis	tereu a	ittorney or agent, or th	e assignee or omer party in
Authorized Signature				Date			
Typed or printed name				Registration No			
This collection of inform an application. Confiden submitting the completes this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but friginia 22313-1450. DC 13-1450.	CFR 1.311. The informat U.S.C. 122 and 37 CFR USPTO. Time will var rden, should be sent to to D NOT SEND FEES OR	ion is required to obtain or 1.14. This collection is es y depending upon the indi- he Chief Information Offic COMPLETED FORMS T	retain a benefit by th stimated to take 12 m vidual case. Any cor ser, U.S. Patent and 7 O THIS ADDRESS.	e publ inutes nment: Tradem SENI	ic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Depa D TO: Commissioner I	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,

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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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APPLICATION 1	NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/579,364		05/15/2006	Athanassios Tzikas	4-22983/A/PCT	1722	
324	7590	09/02/2009		EXAMINER		
JoAnn Villa	JoAnn Villamizar			KLEMANSKI, HELENE G		
Ciba Corpor	Ciba Corporation/Patent Department				PAPER NUMBER	
540 White Plains Road P.O. Box 2005				1793 DATE MAILED: 09/02/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 350 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 350 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/579 364 TZIKAS ET AL. Notice of Allowability Examiner Art Unit Helene Klemanski 1793 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to the RCE and amendment filed August 24, 2009. 2. The allowed claim(s) is/are 1-5 and 7-11. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) 🔯 All 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. T Examiner's Amendment/Comment Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other .

/Helene Klemanski/ Primary Examiner, Art Unit 1793 Application/Control Number: 10/579,364

Art Unit: 1793

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 24, 2009 has been entered.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: This application teaches a dye mixture comprising at least one dye of formula (1)

$$(R_3)_{0-3} \\ (R_2)_{N} \\ N = N$$

$$(R_3)_{0-3} \\ (Y_2)_q$$

$$(SO_3H)_2$$

together with at least one dye of formula (2a)

Application/Control Number: 10/579,364 Page 3

Art Unit: 1793

$$(R_4)_{0-2} \xrightarrow{\text{IV}} N = N$$

$$+ N =$$

wherein R_1 and R_2 are each independently of the other H, or unsubstituted or substituted C_{1-4} alkyl; $(R_3)_{0-3}$ denotes from 0 to 3 identical or differing substituents from the group halogen, C_{1-4} alkyl, C_{1-4} alkoxy, carboxy or sulfo; A is unsubstituted or substituted phenylene, naphthylene, or C_{2-8} alkylene which may be interrupted by oxygen; X_1 is halogen or a non-fiber-reactive substituent; q is the number 0 or 1; Y_1 , Y_2 , Y_3 and Y_4 are each independently of the others a fiber-reactive radical of the formula

Art Unit: 1793

$$-SO_2-Z$$
 (3a),

$$-NH-CO-(CH_2)_m-SO_2-Z$$
 (3b),

$$-CONH-(CH_2)_n-SO_2-Z$$
 (3c),

$$-NH-CO-CH(Hai)-CH_2-Hai \hspace{1.5cm} (3d),\\$$

$$\begin{array}{c}
-NH \\
N \\
N \\
N \\
X_2
\end{array}$$

$$\begin{array}{c}
(3f) \\
T, \\
\end{array}$$

wherein X_2 is halogen; T independently has the definition of X_2 , is a non-fiber-reactive substituent or is a fiber-reactive radical of formula

$$\begin{array}{c} \text{H, Me, Et} \\ \downarrow \\ -\text{N} - (\text{CH}_2)_{2\cdot3} - \text{SO}_2 - \text{Z}, \\ -\text{NH} - (\text{CH}_2)_{2\cdot3} - \text{O} - (\text{CH}_2)_{2\cdot3} - \text{SO}_2 - \text{Z}, \end{array} \tag{4a}$$

Application/Control Number: 10/579,364 Art Unit: 1793

wherein $(R_6)_{0\cdot 2}$ denotes from 0 to 2 identical or differing substituents from the group halogen, $C_{1\cdot 4}$ alkyl, $C_{1\cdot 4}$ alkoxy and sulfo; Z is vinyl or a radical $-CH_2$ - CH_2 -U and U is a group removable under alkaline conditions; Q is a group -CH(Hal)- CH_2 -Hal or -C(Hal)- CH_2 ; m and n are each independently of the other the number 2, 3 or 4; Hal is halogen; $(R_4)_{0\cdot 2}$ and $(R_5)_{0\cdot 2}$ denote, each independently of the other, from 0 to 2 identical or differing substituents selected from the group $C_{1\cdot 4}$ alkyl, $C_{1\cdot 4}$ alkoxy and sulfo; and one of the fiber-reactive radicals Y_3 and Y_4 is a radical of formula (3a), (3b), (3c), (3d) or (3e) and the other of the fiber-reactive radicals Y_3 and Y_4 is a radical of formula (3b) or (3f), and ink containing the dye mixture and a method of dyeing or printing a fiber material with the dye mixture or the ink composition. The closest prior

Application/Control Number: 10/579,364 Page 6

Art Unit: 1793

art of record is WO 00/43455, which teaches a reactive dye composition comprising (1)

a reactive dye of the formula (III)

Application/Control Number: 10/579,364

Art Unit: 1793

wherein Y and Y' each independently are -SO₂X, -NH-W or

W is R_s ; X is -CH=CH₂, -C₂H₄OSO₃H or -C₂H₄CI; T is -F or -CI; R_5 is

-Cl; R_1 , R_2 , R_3 and R_4 , each independently is H, halogen, C_{1-4} alkyl, C_{1-4} alkoxy or sulfonyl groups and at least one of R_1 , R_2 , R_3 and R_4 is other than H and (2) a reactive dye of the formula (X) or (XI)

Application/Control Number: 10/579,364 Art Unit: 1793

or

$$\begin{array}{c|c} R_i & Y \\ N=N & NH \\ HO_5S & SO_5H \end{array}$$

wherein Y, Y' and R₁ are defined above and n is 0, 1, 2, or 3 but fails to specifically exemplify a reactive dye composition comprising a combination of applicant's dye of formula (2a) (i.e. the dye of formula (III) in WO 00/43455) and applicants dye of formula (1) (i.e. the dyes of formula (x) or (XI) in WO 00/43455) as claimed by applicants. Applicants have provided a Declaration showing that a reactive dye composition comprising a combination of applicant's dye of formula (2a) and applicants dye of formula (1) provides a dyeing having unexpected results in the form of improved fastness to water as compared to a reactive dye composition that does not include applicants dye of formula (2a) as shown by example 28 of WO 00/434455. Accordingly, applicants showing of unobvious and unexpected results have overcome the 103(a) over WO 00/434455 and the application is allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/579,364 Page 9

Art Unit: 1793

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Helene Klemanski whose telephone number is (571) 272-1370. The examiner can normally be reached on Monday-Friday 7:00-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on (571) 272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Helene Klemanski/ Primary Examiner, Art Unit 1793